

> Denotes revised material in this JPM

## **JOB PERFORMANCE MEASURE**

**TASK CODE:** CFO-173

**TASK:** Operate a Portable Alpha CAM

**NAME:** \_\_\_\_\_

**>BADGE:** \_\_\_\_\_

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**>REFERENCES:** Only references for knowledge items are listed here. The trainee is expected to identify the correct references for practical items.

1. WP 12-HP1300, Radiological Monitoring Equipment

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**TERMINAL OBJECTIVE:**

Given that a portable alpha CAM requires operation, change the filters and operate the portable alpha CAM per WP 12-HP1300.

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**CONSEQUENCES OF INADEQUATE PERFORMANCE:**

Unreliable sample activity  
Improper CAM operation

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**HAZARDS (PERSONNEL/EQUIPMENT STATUS):**

Internal deposition of radioactive material

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**PRE-REQUISITE TRAINING/ TASK COMPLETION:**

1. CL 1.00 Series
- >2. CL 2.06, Airborne Sampling Programs and Methods
- >3. CL 2.18, Air Sampling Equipment
4. CFO-156, Control Radioactive Sources

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**TOOLS/EQUIPMENT (MATERIALS REQUIRED):**

- |                       |  |
|-----------------------|--|
| 1. Portable alpha CAM | 4. Forceps/tweezers                            |
| 2. Pu239 source       | 5. Functional check form                       |
| 3. Air sample filters | 6. Laptop Computer w/X talk and A6-BW programs |

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**Instructions to Trainee:** You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

**Instructions to JPM Evaluator:** The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

**>On performance items, if there is more than one means available to accomplish the step, circle the method used. Refer to the RCT-01 Qualification Standard for preference of use.**

#### KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
1	State the frequency of a functional check.	
1	State your actions if the functional check does not meet the requirements.	
1	State your actions when a CAM does not operate properly.	
1	Describe the basic operation of a portable CAM.	
1	Describe the effect of a temperature inversion on a portable CAM.	

#### PERFORMANCE REQUIREMENTS:

>Method	Performance Requirement	Pass/Fail
	<b>CAM OPERATION</b>	
P	Inspect the instrument for physical damage. #	
P	Change the filter. #	
P	Perform the operability check. #	
P	Perform the source check of the instrument. #	
P	Adjust the sample flow rate. #	
P	Place the portable CAM in the worker's breathing zone. #	
	<b>FUNCTIONAL CHECKS</b>	

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>Method	Performance Requirement	Pass/Fail
P	Connect a pump and run for 30 minutes. #	
P	Verify that the Po-214 peak is centered between channels 173-183. #	
P	Verify the flow rate is acceptable. #	
P	Initiate the low flow alarm. #	
P	Remove the filter and inspect/clean the detector. #	
P	Insert the Pu239 check source. #	
P	Activate the HI and HI-HI alarms. #	
P	Verify that the Pu239 peak is centered between channels 107-117. #	
P	Verify the efficiency is within specifications. #	
P	Restore the CAM to operations. #	
P, S	Submit functional check sheet to the RC Manager for review. #	

# indicates a critical step

**FINAL EVALUATION:**

PASS

FAIL

**COMMENTS:**

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EVALUATOR SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

TRAINEE SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

MANAGER SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_